



National Veterinary Stockpile African Swine Fever Gap Analysis and Countermeasures Workshop Plum Island, April 3-4, 2013

Agenda

Introduction

United States Homeland Security Presidential Directive Nine (HSPD-9) of January 30, 2004, Section 18(a) calls for the development of a “National Veterinary Stockpile (NVS) that shall contain sufficient amounts of animal vaccine, antiviral, or therapeutic products to appropriately respond to the most damaging animal diseases affecting human health and the economy and that will be capable of deployment within 24 hours of an outbreak. The NVS shall leverage where appropriate the mechanisms and infrastructure that have been developed for the management, storage, and distribution of the Strategic National Stockpile.” An international group of experts on African Swine Fever (ASFWG) will meet at the Plum Island Animal Disease Center April 3-4, 2013, to assess countermeasures to effectively control and mitigate the impact of an outbreak of ASFV. The ASFWG will prepare a report that will 1) define the threat, 2) provide a gap analysis of our knowledge of African Swine Fever, 3) identify priority research needs, 4) and provide an in-depth analysis of available countermeasures to contain and mitigate the threat.

Workshop Objectives

1. Gap analysis
2. Countermeasures assessment
3. Research priorities
4. Workshop Report

Venue

Plum Island Animal Disease Center, Orient New York

Organizing Committee

Dr. Manuel Borca

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Agenda

April 3, 2013

Knowledge and Gaps

08:00

Board ferry to PIADC

08:30

Arrive at PIADC – Front Desk check in – badge issuing

09:00

Welcome

Larry Barrett, DVM, Center Director, DHS-PIADC

Luis Rodriguez, DVM, Ph.D, Research Leader, ARS-PIADC

09:15 – 09:45

Workshop Goals, Objectives, Methods, and Outcomes

Cyril G. Gay, DVM, Ph.D

National Program Leader, Animal Production and Protection, USDA-ARS

09:45 – 10:00

Coffee Break

10:00 - 10:30

**Introduction: Obstacles to Preventing and Controlling
African Swine Fever**

Professor Jose Manuel Sanchez-Vizcaino

Universidad Complutense, Madrid, Spain

10:30 -11:30

Session 1: Epidemiology – Africa, Europe, and the Caucasus

Solenne Costard and Denis Kolbasov, DVM, Ph.D

Russian National Institute of Veterinary Virology and Microbiology

Pokrov Vladimir Region, Russia

Group Discussion: Leader Guillermo Risatti

- Gaps and research needs

11:30 – 12:30

Lunch

12:30 -13:30

Session 2: Virology – Functional Genomics, Determinants of Virulence and Host Pathogen Interactions

Laszlo Zsak, DVM, Ph.D

Research Leader, ARS-SEPRL

Group Discussion: Leader Covadonga Alonso

- Gaps and research needs

13:30 – 14:30

Session 3: Diagnostics - Surveillance, Response, and Recovery

Carmina Gallardo Frontaura, DVM, Ph.D

EU- Community Reference Laboratory for African Swine Fever, CISA, INIA, Spain

Group Discussion: Leader Hermann Unger

- Gaps and research needs

14:30 -15:00

Coffee Break

15:00 - 16:00

Session 4: Vaccines – Ideal Vaccine Profile, Vaccinology, What's in the Pipeline

Linda Dixon, Ph.D

The Pirbright Institute, Pirbright, UK

Group Discussion: Leader Manuel Borca

- Gaps and research needs

16:15

Ferry Departs for Old Saybrook

16:30

Ferry Departs for Orient Point

Agenda

April 4, 2013

Gap Analysis and Countermeasures Assessment

8:00

Board ferry to PIADC

08:30

Arrive at PIADC – Front Desk check in – badge issuing

09:00 – 11:30

Breakout Sessions – Epidemiology, Virology, Diagnostics, and Vaccines

11:30 – 12:30

Lunch

12:30 – 14:30

Breakout Sessions Continued

Instructions: Provided by **Dr. Cyril G. Gay**

Each breakout group will review available countermeasures, identify and assess strength and weaknesses, and rank available countermeasures. Session leaders will be responsible for documenting the group discussion and recommendations. This information will be used to populate the gap analysis and countermeasures assessment. For diagnostics and vaccines, the breakout groups will use a decision model to assess potential countermeasures to stockpile. These countermeasures must significantly improve our ability to control and eradicate an outbreak of ASF virus. When finished with their objectives, the epidemiology group will join the diagnostic group to contribute to the assessment of diagnostics for surveillance and epidemiological investigations. When finished with their objectives, the virology group will join the vaccine group to determine priority research areas that will contribute to vaccine discovery research.

Breakout Group 1: Epidemiology

Session leaders: Dr. Beatriz Martinez and Dr. Gerald Misinzo

- Transmission
- Susceptible hosts
- Wildlife- domestic animal interphase
- Tick vector transmission and viral ecology
- Research gaps and priorities assessment

Breakout Group 2: Virology

Session leaders: Dr. Covadonga Alonso and Dr. Yolanda Revilla

- Functional genomics
- Determinants of virulence
- Host-pathogen interactions (pathogenesis, immunology, genetics)
- Disinfectants
- Research gaps and priorities assessment

Breakout Group 3: Diagnostics

Session leader: Dr. Carmina Gallardo Frontaura and Dr. Consuelo Carrillo

- Review criteria for selecting diagnostics
- Review available and new diagnostics for surveillance, response, and recovery
- Decision model analysis of available diagnostics
- Decision model analysis of experimental diagnostics
- Rank diagnostic tests
- Research gaps and priorities assessment

Breakout Group 4: Vaccines

Session leaders: Dr. Linda Dixon and Dr. Manuel Borca

- Review criteria for selecting vaccines
- Review list of available vaccines (in the pipeline)
- Decision model analysis of experimental vaccines
- Rank vaccines
- Research gaps and priorities assessment

14:30 – 15:00 Coffee Break

15:00 - 16:00

Report from Section Leaders

- Epidemiology
- Virology
- Diagnostics
- Vaccines

16:00 - 16:15

Wrap up, Conclusion and Next Steps

Dr. Cyril Gay

END OF NVS COUNTERMEASURE WORKSHOP

16:30 Ferry Departs for Orient Point

18:30-20:30 Closing Dinner at Hilton in Riverhead NY

Complements of the National Pork Board

Speaker: **Vincent Martin**, FAO, Rome, Italy

“The FAO Global ASF Alliance and Anticipated Needs from the GARA”



Agenda

April 5, 2013

Global ASF Research Alliance (GARA)

Sponsored by

*United States Department of Agriculture
Agricultural Research Service (USDA-ARS)*

*Plum Island Animal Disease Center (PIADC)
Foreign Animal Disease Research Unit
Greenport, New York, 11944-0848 USA*

Purpose:

Control of African swine fever (ASF) is likely to be achieved only through creation of an integrated package of tools coupled with the knowledge of how to use them effectively. No single institution can achieve this goal alone. Because there are several institutions around the world with programs in ASF research, there are opportunities for international collaborations to maximize the impact of available resources and expertise. The Global African Swine Fever Research Alliance (GARA) proposes to build a consortium of institutions conducting research on ASF to provide the scientific information and tools needed to control ASF in ASF-free countries and where ASF is endemic. The primary objective of the GARA will be to support through scientific endeavors the OIE-FAO efforts in the global control and, when feasible, the eradication of ASF, an important transboundary animal disease. GARA is now at the point of needing to crystallize its mission and formalize its operating procedures (organizational structure, and decision-making process) and to establish outreach and education materials to inform decision makers and the public about the threat of ASF and what research can do to mitigate this threat.

Expected Outcomes:

The outcome of the meeting will be a crystal clear GARA mission, organizational structure, operating procedures for decision-making, identification of steps for including new partners and stakeholders in the global campaign to control and eradicate ASF, and develop outreach material such as a glossy promotional brochure and establishment of a website to provide information to decision makers and the general public.

08:00	Board ferry to PIADC
08:30	Arrive at PIADC – Front Desk check in – Badge Issuing
09:00 – 09:30	Overview of Meeting Objectives Dr. Cyril Gay, Office of National Programs, USDA-ARS
09:30 – 10:00	Review of ASF Research Needs and Priorities from NVS Countermeasures Workshop Dr. Luis Rodriguez, Research Leader, PIADC, USDA-ARS
10:00 – 10:15	Break
10:15 – 11:15 Session I	GARA – Vision, Mission, and Strategic Goals Facilitators: Dr. Linda Dixon and Professor Carlos Martins
11:30 – 12:30	Lunch
12:30 – 13:15 Session II	GARA – Proposed Structure Facilitators: Dr. Cyril Gay and Dr. Livio Heath <ul style="list-style-type: none"> • Membership • Executive Committee • Stakeholders • Sponsors <p>Proposed model: International research laboratory network linked through any of the executive committee member research laboratories. International partners are linked though bilateral or trilateral agreements with any of the GARA members. Other partners may join existing research partnerships and contribute to new research projects. The goal is to establish an international network of research projects that contribute to the needs of country-specific, regional (e.g., Eastern Europe, Caucasus, Asia, Africa), and global efforts to prevent, control, and where feasible, eradicate ASF.</p> <p>❖ GARA Structure</p> <ul style="list-style-type: none"> ○ Leadership ○ Executive committee ○ Need for MOU

❖ **Expanding GARA**

- Executive committee membership
- Contributing laboratories
- Mechanism for adding new members

❖ **GARA Stakeholders And Partners**

- OIE
- FAO
- IAEA
- ASF diagnostics laboratories
- Veterinary services
- Universities
- Pharmaceutical industry

❖ **Potential Sponsors**

- Research funders
- International organizations
- Pharmaceutical industry

13:15-14:00

Session III

Development of GARA Brochure and Web Site

Facilitators: Dr. Richard Bishop and Dr. Cyril Gay

14:00 -14:30

Break

14:30-15:15

Session IV

Selection of GARA Leadership: 2013 - 2014

Facilitators: Professor Jose Manuel Viscaino-Sanchez and Dr. Manuel Borca

15:15-16:00

Session V

GARA 2013 - 2014 Activities

Facilitator: Selected GARA Leader for 2013-2014

16:00

Adjourn

16:15

Ferry Departs for Old Saybrook

16:30

Ferry Departs for Orient Point

Workshop Participants

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